



KOÇ UNIVERSITY

Math-Science Seminar

Speaker: A. Refik Kortan (Lucent Technologies, OFS Laboratories, Murray Hill, NJ 07974, USA)

Title: Novel Materials for Photonics

Date and Time: Friday, July 19, 2002, 11:00 am.*

Place: Room Z42, Science Building, Koç University, Rumelifeneri Yolu, Sariyer 80910 Istanbul.

Abstract: Photonic materials have played the key role in recent optical communication revolution, and continue to define new limits for our understanding of photon-matter interaction. The ever-increasing demand for higher data capacity translates into increased bandwidth and higher bit-rates, which are fast approaching the fundamental limits. This motivates us to search for new materials with enhanced physical properties. This talk will provide a brief overview of the physics of present bottlenecks, and summarize our research efforts in ultra-transparent optical fibers, wide-band optical amplifiers, and ultra-high speed optical-switching, which can become the key components of the future optical networks.

*Refreshments to be served in Science Building, Room Z40 at 10:45 am.